

LIMITATION CODES: F = Field length S = 2nd Segment * = Obstacles T = Tire speed B = Brake energy
C = Approach climb BLANK = No limitations

PISA S. Giusto 04L

VMCG VRMIN V2MIN	WET FLAP 15						
	OAT °C	WIND (kt)					
		-10	-5	0	10		
115	-10	62.2	125	63.4	127	64.7	130
117		*	139	*	141	*	143
126	(NA)	13.0	147	13.0	148	13.0	150
						13.0	151
115	-5	62.0	124	63.2	127	64.5	130
117		*	139	*	141	*	142
126	(NA)	13.0	147	13.0	148	13.0	150
						13.0	151
115	0	61.8	124	63.1	127	64.3	129
117		*	139	*	141	*	142
126	(NA)	13.0	146	13.0	148	13.0	149
						13.0	150
115	5	61.6	124	62.9	127	64.1	129
117		*	139	*	140	*	142
126	(NA)	13.0	146	13.0	148	13.0	149
						13.0	150
115	10	61.5	123	62.8	126	64.0	129
117		*	139	*	140	*	142
126	(NA)	13.0	146	13.0	148	13.0	149
						13.0	150
115	15	61.1	123	62.6	126	63.8	128
117		*	138	*	140	*	142
126	(NA)	13.0	146	13.0	147	13.0	149
						13.0	150
115	20	60.8	122	62.4	125	63.6	128
117		*	138	*	140	*	141
126	(NA)	13.5	145	13.0	147	13.0	149
						13.0	150
115	25	60.4	122	62.1	125	63.4	128
117		*	137	*	140	*	141
126	(NA)	13.5	145	13.0	147	13.0	148
						13.0	149
115	27	60.3	121	62.0	125	63.3	128
117		*	137	*	139	*	141
126	(NA)	13.5	145	13.0	147	13.0	148
						13.0	149
115	29	60.1	121	61.8	125	63.2	128
117		*	137	*	139	*	141
126	(NA)	13.5	144	13.0	147	13.0	148
						13.0	149
114	31	59.5	121	61.3	124	62.6	127
117		*	136	*	139	*	140
125	(NA)	13.5	144	13.0	146	13.0	147
						13.0	148
113	33	58.9	120	60.7	124	61.9	127
116		*	136	*	138	*	140
124	(NA)	13.5	143	13.0	145	13.0	147
						13.0	148
112	35	58.3	120	60.0	123	61.2	126
115		*	135	*	137	*	139
124	(NA)	13.5	142	13.0	144	13.0	146
						13.0	147
112	37	57.6	119	59.2	122	60.5	125
115		*	134	*	136	*	138
123	(30)	13.5	141	13.0	143	13.0	145
						13.0	146
111	39	56.9	118	58.5	122	59.7	124
114		*	134	*	136	*	137
122	(32)	13.5	141	13.0	143	13.0	144
						13.0	145
110	41	56.3	118	57.8	121	58.9	124
113		*	133	*	135	*	136
121	(33)	13.5	140	13.0	142	13.0	143
						13.0	144
	41	56.0	117	57.0	119	58.0	122
			132		134		135
		13.5	139	13.0	141	13.0	142
						13.0	143
	41	54.0	114 CK	55.0	116	56.0	118
			130		131		132
		13.5	137	13.5	138	13.5	139
						13.0	141
	41	52.0	110 CK	53.0	112 CK	54.0	115
			127		128		130
		14.0	134	14.0	135	13.5	137
						13.5	138
	41	50.0	106 CK	51.0	109 CK	52.0	111 CK
			124		125		127
		14.5	131	14.0	133	14.0	134
						14.0	135
	41	48.0	102 CK	49.0	105 CK	50.0	108 CK
			121		122		124
		14.5	129	14.5	130	14.5	131
						14.0	133
	41	46.0	98 CK	47.0	101 CK	48.0	104 CK
			118		119		121
		15.0	126 CK	15.0	127	14.5	129
						14.5	130
	41	44.0	94 CK	45.0	97 CK	46.0	100 CK
			115 CK		116 CK		118
		15.5	123 CK	15.5	124 CK	15.0	126 CK
						15.0	127

LIMITATION CODES: F = Field length S = 2nd Segment
G = TOW limited by VMCG

SSW							MAXIMUM DEPTH { 0.90" (22 mm) of DRY SNOW 0.25" (6 mm) of SLUSH/WET SNOW 0.20" (5 mm) of STANDING WATER PTOW (ton) / LIMIT CODE				
OAT		WIND (kt)						FLAP			
°C		-10		-5		0		10		15	
-10		50.1 G		59.2 *		61.1 *		62.2 *			
-5		47.9 G		58.7 *		60.7 *		61.8 *			
0		NO T/O		57.0 G		60.3 *		61.4 *			
5		NO T/O		54.6 G		59.9 *		61.0 *			
10		NO T/O		52.3 G		59.7 *		60.8 *			
15		NO T/O		50.3 G		59.3 *		60.4 *			
20		NO T/O		48.5 G		59.0 *		60.1 *			
25		NO T/O		NO T/O		58.6 F		59.7 *		17	
30		NO T/O		NO T/O		57.8 F		59.1 *			
-10		50.8 G		59.4 *		61.1 *		61.9 *			
-5		NO T/O		59.0 *		60.7 *		61.7 *			
0		NO T/O		57.6 G		60.4 *		61.4 *			
5		NO T/O		55.2 G		60.1 *		61.1 *			
10		NO T/O		53.0 G		60.0 *		60.9 *			
15		NO T/O		51.0 G		59.6 *		60.6 *			
20		NO T/O		NO T/O		59.3 *		60.3 *			
25		NO T/O		NO T/O		58.9 *		60.0 *			
30		NO T/O		NO T/O		58.3 *		59.4 *			
MAXIMUM LANDING WEIGHT (ton)											
RUNWAY LENGTH LIMITATIONS Runway Length : 8163 ft (2488 m)								CLIMB LIMIT (Go-Around)			
FLAP		40			28			OAT		W	
RWY COND		DRY		WET		DRY		WET		°C (ton)	
W -10		75.0		75.0		75.0		75.0		-5 71.7	
I -5		75.0		75.0		75.0		75.0		27 71.7	
N 0		75.0		75.0		75.0		75.0		29 71.0	
D 10		75.0		75.0		75.0		75.0		31 70.1	
20		75.0		75.0		75.0		75.0		33 69.2	
										35 68.3	
										37 67.3	
For QNH corrections, use values relevant to Go-Around											
WEIGHT CORRECTIONS (kg) for :											
CONDITIONS			DRY		TAKEOFF WET		SSW 15		SSW 17		GO AROUND
ENG + AIRF A/I ON			-3000		-1800		-900		-1600		-4000
QNH < 1013 (kg/hPa)			-80		-80		-90		-100		-80
QNH > 1013 (kg/hPa)			+30		+30		+30		+30		+30
max Δ hPa : 1											
PSA04LR01 25070818 02 Apr 2009											
NOTE : MTOW/MLAW (structural) see AOM Vol.2 Chap.1											
ONE ENGINE OUT PROCEDURE :											
- At 300 ft QNH,left turn direct to PIS/L or JESSY Holding point.											
- Acceleration altitude : 1500 ft QNH											

* = Obstacles A = TOW limited by acceleration

Alitalia Compagnia Aerea Italiana MD80 OPERATIONS MANUAL		Elev: 7 ft Length: 8163 ft (2488 m) Slope: -0.05 % Shift: 0 ft (0 m)	Runway 22R	Airport PISA S. Giusto	LIRP - PSA
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JT8D-217A

A/C : OFF/ON

A/I OFF or ENG A/I ON

PTOW (ton) ; V1 (KIAS)

LIMIT CODE ; VR (KIAS)

PITCH (deg) ; V2 (KIAS)

02 Apr 2009

VMCG VRMIN V2MIN	FLAP 11						DRY	OPTIMUM FLAP					
	OAT °C	W I N D (kt)				OAT °C		W I N D (kt)					
		-10	-5	0	10			-10	-5	0	10		
115 119 128	27 (NA)	63.6 137 F 143 14.0 150	65.7 140 F 145 13.5 153	67.9 F	69.1 F	-5	65.6 137 * 141 13.0 149	67.7 *	69.2 *	69.3 S			
115 119 128	29 (NA)	63.4 137 F 143 14.0 150	65.5 140 F 145 14.0 153	67.6 F	68.9 F	0	65.5 137 * 141 13.0 148	67.5 *	69.1 *	69.2 S			
114 118 127	31 (NA)	62.8 136 F 142 14.0 149	64.8 139 F 144 14.0 152	66.9 143 F 147 13.5 154	68.2 F	5	65.3 136 * 141 13.0 148	67.3 *	68.9 *	69.2 S			
113 118 127	33 (NA)	62.1 135 F 141 14.0 148	64.1 139 F 144 13.5 151	66.3 142 F 146 13.5 154	67.4 144 * 148 13.5 155	10	65.2 136 * 141 13.0 148	67.1 *	68.7 *	69.1 S			
113 117 126	35 (NA)	61.5 135 F 141 14.0 148	63.5 138 F 143 13.5 150	65.6 141 F 146 13.5 153	66.6 143 * 147 13.5 154	15	65.0 136 * 141 13.0 148	67.0 *	68.5 *	69.1 *			
112 116 125	37 (30)	60.8 134 F 140 14.0 147	62.7 137 F 142 13.5 149	64.8 140 F 145 13.5 152	65.7 142 * 146 13.5 153	20	64.8 136 * 141 13.0 148	66.7 140 F 145 13.5 152	68.4 *	68.9 *			
111 116 124	39 (32)	60.0 133 F 139 14.0 146	61.9 136 F 141 13.5 148	64.0 140 F 144 13.5 151	64.9 141 * 145 13.5 152	25	64.7 135 * 140 13.0 148	66.3 139 F 144 13.5 151	68.2 *	68.8 *			
110 115 123	41 (33)	59.3 132 F 138 14.0 145	61.2 136 F 141 13.5 147	63.2 139 F 143 13.5 150	64.0 140 * 144 13.5 151	27	64.6 135 * 140 13.0 147	66.1 139 F 144 13.5 151	68.1 F	68.7 *			
109 114 123	43 (35)	58.7 132 F 138 14.0 144	60.6 135 F 140 13.5 147	62.6 138 F 142 13.5 149	63.2 139 * 143 13.5 150	29	64.4 135 F 140 13.0 147	65.9 139 F 144 13.5 151	67.9 F	68.6 *			
109 113 122	45 (37)	58.0 131 F 137 14.0 143	59.9 134 F 139 13.5 146	61.9 138 * 142 13.5 148	62.4 139 * 142 13.5 149	31	63.8 134 * 139 13.0 146	65.2 138 F 143 13.5 150	67.2 142 F 146 13.5 154	67.8 *			
108 112 121	47 (39)	57.3 131 F 136 14.0 142	59.2 134 F 138 13.5 145	60.9 137 * 141 13.5 147	61.5 138 * 141 13.5 148	33	63.1 134 * 139 13.0 146	64.5 137 F 142 13.5 149	66.4 141 * 146 13.5 153	67.0 142 * 146 13.5 153			
107 112 120	49 (41)	56.6 130 F 135 14.0 142	58.4 133 F 138 13.5 144	60.0 136 * 140 13.5 146	60.4 137 S 140 13.5 146	35	62.4 133 * 138 13.0 145	63.8 137 F 141 13.5 148	65.7 140 * 145 13.5 152	66.2 141 * 145 13.5 152			
	49	56.0 129 134 14.0 141	58.0 132 137 13.5 143	58.0 133 137 13.5 143	60.0 136 140 13.5 146	37	61.6 132 * 137 13.0 144	63.1 136 F 141 13.5 147	64.7 139 * 144 13.5 151	65.3 140 * 144 13.5 151			
	49	54.0 126 132 14.0 138	56.0 129 134 14.0 141	56.0 130 134 14.0 141	58.0 133 137 13.5 143		61.0 131 136 13.0 143	63.0 136 140 13.5 147	64.0 138 143 13.5 150	65.0 140 144 13.5 151			
	49	52.0 122 129 14.5 135	54.0 126 132 14.0 138	54.0 126 132 14.0 138	56.0 130 134 14.0 141		59.0 128 134 13.5 141	61.0 133 138 13.5 145	62.0 135 140 13.5 147	63.0 137 142 13.5 148			
	49	50.0 119 126 15.0 133	52.0 123 129 14.5 135	52.0 123 129 14.5 135	54.0 127 132 14.0 138		57.0 125 131 13.5 138	59.0 130 135 14.0 142	60.0 132 138 14.0 145	61.0 134 139 14.0 146			
	49	48.0 116 123 15.0 130	50.0 120 126 15.0 133	50.0 120 126 15.0 133	52.0 124 129 14.5 135		55.0 122 129 14.0 136	57.0 127 133 14.5 140	58.0 130 135 14.0 142	59.0 131 136 14.0 143			
	49	46.0 112CK 120 15.5 128CK	48.0 116 123 15.0 130	48.0 117 123 15.0 130	50.0 120 126 15.0 133		53.0 119 126 14.0 133	55.0 124 130 14.5 137	56.0 126 132 14.5 140	57.0 128 134 14.5 141			
	49	44.0 109CK 117CK 16.0 125CK	46.0 113CK 120 15.5 128CK	46.0 113CK 120 15.5 128CK	48.0 117 123 15.0 130		51.0 116 123 14.5 131	53.0 121 127 15.0 135	54.0 123 130 15.0 137	55.0 125 131 14.5 139			
	49	42.0 105CK 114CK 16.0 122CK	44.0 109CK 117CK 16.0 125CK	44.0 110CK 117CK 16.0 125CK	46.0 114CK 120 15.5 128CK		49.0 115 120 15.0 128	51.0 117 125 15.0 132	52.0 120 127 15.0 134	53.0 122 128 15.0 136			
	49	40.0 101CK 110CK 16.0 119CK	42.0 106CK 114CK 16.0 122CK	42.0 106CK 114CK 16.0 122CK	44.0 110CK 117CK 16.0 125CK		47.0 115 117 15.0 126	49.0 115 122 15.5 130	50.0 117 124 15.5 132	51.0 119 126 15.5 133			

LIMITATION CODES:

F = Field length
C = Approach climbS = 2nd Segment
BLANK = No limitations

* = Obstacles

T = Tire speed

B = Brake energy

PISA S. Giusto 22R

VMCG VRMIN V2MIN	WET FLAP 15						
	OAT °C	WIND (kt)					
		-10	-5	0	10		
115	-10	64.4	128	65.6	130	66.7	133
117		*	142	*	144	*	145
126	(NA)	13.0	150	13.0	151	12.5	152
115	-5	64.2	128	65.5	130	66.6	133
117		*	142	*	144	*	145
126	(NA)	13.0	149	13.0	151	12.5	152
115	0	64.0	127	65.3	130	66.4	132
117		*	142	*	143	*	145
126	(NA)	13.0	149	13.0	151	12.5	152
115	5	63.8	127	65.1	130	66.3	132
117		*	142	*	143	*	145
126	(NA)	13.0	149	13.0	150	12.5	152
115	10	63.7	126	65.0	129	66.2	132
117		*	141	*	143	*	145
126	(NA)	13.0	149	13.0	150	12.5	152
115	15	63.3	126	64.8	129	66.0	131
117		F	141	*	143	*	144
126	(NA)	13.0	148	13.0	150	12.5	151
115	20	62.8	125	64.6	129	65.8	131
117		F	140	*	143	*	144
126	(NA)	13.0	148	13.0	150	12.5	151
115	25	62.3	124	64.4	128	65.6	131
117		F	140	*	142	*	144
126	(NA)	13.0	147	13.0	150	13.0	151
115	27	62.1	124	64.2	128	65.5	131
117		F	140	F	142	*	144
126	(NA)	13.0	147	13.0	149	13.0	151
115	29	61.8	124	63.9	128	65.4	131
117		F	139	F	142	*	144
126	(NA)	13.0	147	13.0	149	13.0	151
114	31	61.3	123	63.3	127	64.7	130
117		F	139	F	141	*	143
125	(NA)	13.0	146	13.0	148	13.0	150
113	33	60.8	123	62.8	127	63.9	129
116		F	138	F	141	*	142
124	(NA)	13.0	145	13.0	148	13.0	149
112	35	60.2	123	62.1	126	63.2	129
115		F	137	*	140	*	141
124	(NA)	13.0	145	13.0	147	12.5	148
112	37	59.6	122	61.3	126	62.5	128
115		F	137	*	139	*	141
123	(30)	13.0	144	13.0	146	12.5	147
111	39	58.9	121	60.6	125	61.7	127
114		F	136	*	138	*	140
122	(32)	13.0	143	13.0	145	12.5	146
110	41	58.2	121	59.9	124	60.9	127
113		F	135	*	137	*	139
121	(33)	13.0	142	13.0	144	12.5	146
	41	58.0	120	59.0	123	60.0	125
			135		136		138
		13.0	142	13.0	143	13.0	144
	41	56.0	117	57.0	119	58.0	122
			132		134		135
		13.5	139	13.0	141	13.0	142
	41	54.0	113 CK	55.0	116	56.0	118
			130		131		132
		13.5	137	13.5	138	13.5	139
	41	52.0	109 CK	53.0	112 CK	54.0	115 CK
			127		128		130
		14.0	134	14.0	135	13.5	137
	41	50.0	106 CK	51.0	108 CK	52.0	111 CK
			124		125		127
		14.5	131	14.0	133	14.0	134
	41	48.0	102 CK	49.0	105 CK	50.0	107 CK
			121		122		124
		14.5	129	14.5	130	14.5	131
	41	46.0	98 CK	47.0	101 CK	48.0	104 CK
			118		119		121
		15.0	126 CK	15.0	127	14.5	129

LIMITATION CODES: F = Field length S = 2nd Segment
G = TOW limited by VMCG

SSW							
MAXIMUM DEPTH							
{ 0.90" (22 mm) of DRY SNOW 0.25" (6 mm) of SLUSH/WET SNOW 0.20" (5 mm) of STANDING WATER PTOW (ton) / LIMIT CODE							
OAT	WIND (kt)					FLAP	
°C	-10	-5	0	10			
-10	50.3 G	60.0 F	62.2 F	63.7 F	15		
-5	48.0 G	59.5 F	61.7 F	63.0 F			
0	NO T/O	57.2 G	61.1 F	62.4 F			
5	NO T/O	54.8 G	60.5 F	61.9 F			
10	NO T/O	52.5 G	60.3 F	61.6 F			
15	NO T/O	50.5 G	59.9 F	61.1 F			
20	NO T/O	48.6 G	59.4 F	60.6 F			
25	NO T/O	NO T/O	58.9 F	60.1 F	17		
30	NO T/O	NO T/O	58.2 F	59.4 F			
-10	51.1 G	61.2 F	63.0 *	63.7 *			
-5	NO T/O	60.5 G	62.8 *	63.5 *			
0	NO T/O	57.8 G	62.4 F	63.3 *			
5	NO T/O	55.4 G	61.8 F	63.1 *			
10	NO T/O	53.2 G	61.6 F	63.0 F			
15	NO T/O	51.2 G	61.1 F	62.4 F			
20	NO T/O	NO T/O	60.6 F	61.9 F			
25	NO T/O	NO T/O	60.1 F	61.4 F			
30	NO T/O	NO T/O	59.4 F	60.6 F			
MAXIMUM LANDING WEIGHT (ton)							
RUNWAY LENGTH LIMITATIONS Runway Length : 8163 ft (2488 m)					CLIMB LIMIT (Go-Around)		
FLAP	40		28		OAT	W	
RWY COND	DRY	WET	DRY	WET	°C	(ton)	
W -10	75.0	75.0	75.0	75.0	-5	71.7	
I -5	75.0	75.0	75.0	75.0	27	71.7	
N 0	75.0	75.0	75.0	75.0	29	71.0	
D 10	75.0	75.0	75.0	75.0	31	70.1	
20	75.0	75.0	75.0	75.0	33	69.2	
					35	68.3	
					37	67.3	
For QNH corrections, use values relevant to Go-Around							
WEIGHT CORRECTIONS (kg) for :							
CONDITIONS		TAKEOFF				GO AROUND	
		DRY	WET	SSW 15	SSW 17		
ENG + AIRF A/I ON		-3000	-1800	-400	-1600	-4000	
QNH < 1013 (kg/hPa)		-80	-80	-90	-100	-80	
QNH > 1013 (kg/hPa)		+30	+30	+30	+30	+30	
max Δ hPa : 1							
PSA22RR01 25070809 02 Apr 2009							
NOTE : MTOW/MLAW (structural) see AOM Vol.2 Chap.1							
ONE ENGINE OUT PROCEDURE :							
- PIS/L or JESSY Holding point.							
- Acceleration altitude : 1500 ft QNH							

* = Obstacles A = TOW limited by acceleration

Alitalia Compagnia Aerea Italiana MD80 OPERATIONS MANUAL		Elev: 7 ft Length: 9820 ft (2993 m) Slope: +0.03 % Shift: 0 ft (0 m)	Runway 04R	Airport PISA S. Giusto	LIRP - PSA
JT8D-217A A/C : OFF/ON A/I OFF or ENG A/I ON			PTOW (ton) ; V1 (KIAS) LIMIT CODE ; VR (KIAS) PITCH (deg) ; V2 (KIAS)	02 Apr 2009	

VMCG VRMIN V2MIN	FLAP 11						DRY	OPTIMUM FLAP							
	OAT °C	W I N D (kt)						OAT °C	W I N D (kt)						
		-10	-5	0	10	-10			-5	0	10				
115 119 128	27 (NA)	65.0 * 14.0	139 145 152	66.4 * 13.5	141 146 154	67.6 * 154	68.2 * 154	-5	67.1 * 14.0	68.6 * 158	70.0 * 158	70.6 * 158			
115 119 128	29 (NA)	64.9 * 14.0	139 144 152	66.3 * 13.5	141 146 154	67.5 * 154	68.1 * 154	0	66.9 * 14.0	146 151 158	68.3 * 158	69.7 * 158	70.4 * 158		
114 118 127	31 (NA)	64.1 * 14.0	138 144 151	65.5 * 13.5	140 145 153	66.7 * 13.5	143 147 154	5	66.6 * 14.0	145 150 158	67.9 * 158	69.5 * 158	70.2 * 158		
113 118 127	33 (NA)	63.3 * 14.0	137 143 150	64.7 * 13.5	140 145 152	66.0 * 13.5	142 146 153	10	66.4 * 14.0	145 150 158	67.7 * 158	69.2 * 158	69.9 * 158		
113 117 126	35 (NA)	62.6 * 14.0	137 142 149	63.9 * 13.5	139 144 151	65.2 * 13.5	141 145 152	15	66.1 * 14.0	144 150 157	67.5 * 157	69.0 * 157	69.7 * 157		
112 116 125	37 (30)	61.8 * 14.0	136 141 148	63.1 * 13.5	138 143 150	64.3 * 13.5	140 145 151	20	65.9 * 14.0	144 150 157	67.3 * 157	68.8 * 157	69.5 * 157		
111 116 124	39 (32)	61.0 * 14.0	135 140 147	62.3 * 13.5	137 142 149	63.4 * 13.5	139 143 150	25	65.7 * 14.0	144 149 157	67.1 * 157	68.5 * 157	69.3 * 157		
110 115 123	41 (33)	60.2 * 14.0	134 139 146	61.5 * 13.5	136 141 148	62.6 * 13.5	138 142 149	27	65.6 * 14.0	144 149 157	67.0 * 157	68.5 * 157	69.2 * 157		
109 114 123	43 (35)	59.4 * 14.0	133 138 145	60.7 * 13.5	135 140 147	61.8 * 13.5	137 142 148	29	65.4 * 14.0	143 149 156	66.8 148 153 160	68.3 * 153 160	69.1 * 153 160		
109 113 122	45 (37)	58.6 * 14.0	132 138 144	59.9 * 13.5	135 139 146	61.0 * 13.5	137 141 147	31	64.7 * 14.0	143 148 156	66.1 * 152 159	67.5 * 159	68.3 * 159		
108 112 121	47 (39)	57.9 * 14.0	132 137 143	59.0 * 13.5	134 138 145	60.1 * 13.5	136 140 146	33	63.9 * 14.0	142 147 155	65.3 * 151 158	66.8 149 153 160	67.5 * 153 160		
107 112 120	49 (41)	57.1 * 14.0	131 136 142	58.2 * 13.5	133 137 144	59.2 * 13.5	135 139 145	35	63.2 * 14.0	141 146 154	64.6 * 150 157	66.0 148 152 159	66.7 149 153 160		
	49	57.0 136 14.0	130 136 142	58.0 132 137 143	132 137 143	59.0 134 138 144	135 138 144	37	62.4 * 14.0	140 146 153	63.7 * 149 156	65.1 147 151 158	65.8 148 152 159		
	49	55.0 133 14.0	127 133 140	56.0 129 134 141	129 134 141	57.0 131 136 142	132 136 142		62.0 139 145 152	63.0 143 148 155	65.0 147 151 158	65.0 147 151 158			
	49	53.0 130 14.5	124 130 137	54.0 126 132 138	126 132 138	55.0 128 133 140	128 133 140		60.0 136 142 149	61.0 140 146 152	63.0 144 148 155	63.0 144 148 155			
	49	51.0 127 15.0	121 127 134	52.0 123 129 135	123 129 135	53.0 125 130 137	125 130 137		58.0 133 140 147	59.0 137 143 150	61.0 140 146 152	61.0 141 146 152			
	49	49.0 125 15.0	118 125 131	50.0 120 126 133	120 126 133	51.0 122 127 134	122 127 134		56.0 130 137 144	57.0 134 140 147	59.0 137 143 150	59.0 138 143 150			
	49	47.0 122 15.5	114 CK 122 129	48.0 116 123 130	116 123 130	49.0 119 125 131	119 125 131		54.0 127 134 142	55.0 131 137 145	57.0 134 140 147	57.0 135 140 147			
	49	45.0 111 CK 119 CK 16.0	111 CK 119 CK 126 CK	46.0 113 CK 120 128 CK	113 CK 120 128 CK	47.0 115 122 129	116 122 129		52.0 123 131 139	53.0 127 134 142	55.0 131 137 145	55.0 131 137 145			
	49	43.0 107 CK 115 CK 16.0	107 CK 115 CK 123 CK	44.0 109 CK 117 CK 125 CK	109 CK 117 CK 125 CK	45.0 112 CK 119 CK 126 CK	112 CK 119 CK 126 CK		50.0 120 128 136	51.0 124 131 139	53.0 128 134 142	53.0 128 134 142			
	49	41.0 103 CK 112 CK 16.0	103 CK 112 CK 120 CK	42.0 106 CK 114 CK 122 CK	106 CK 114 CK 122 CK	43.0 108 CK 115 CK 123 CK	109 CK 115 CK 123 CK		48.0 117 125 133	49.0 121 128 136	51.0 124 131 139	51.0 125 131 139			

LIMITATION CODES: F = Field length S = 2nd Segment * = Obstacles T = Tire speed B = Brake energy
C = Approach climb BLANK = No limitations

PISA S. Giusto 04R

VMCG VRMIN V2MIN	WET FLAP 15						
	OAT °C	WIND (kt)					
		-10	-5	0	10		
115	-10	63.4	127	64.7	129	65.9	132
117		*	141	*	143	*	144
126	(NA)	13.0	148	13.0	150	12.5	151
						12.5	152
115	-5	63.2	126	64.5	129	65.7	131
117		*	141	*	142	*	144
126	(NA)	13.0	148	13.0	150	12.5	151
						12.5	152
115	0	63.0	126	64.3	129	65.5	131
117		*	141	*	142	*	144
126	(NA)	13.0	148	13.0	150	13.0	151
						12.5	152
115	5	62.9	126	64.1	129	65.4	131
117		*	140	*	142	*	144
126	(NA)	13.0	148	13.0	149	13.0	151
						12.5	152
115	10	62.8	125	64.1	128	65.3	130
117		*	140	*	142	*	143
126	(NA)	13.0	148	13.0	149	13.0	151
						12.5	151
115	15	62.6	125	63.9	128	65.1	130
117		*	140	*	142	*	143
126	(NA)	13.0	147	13.0	149	13.0	150
						12.5	151
115	20	62.4	125	63.6	127	64.9	130
117		*	140	*	142	*	143
126	(NA)	13.0	147	13.0	149	13.0	150
						13.0	151
115	25	62.2	124	63.4	127	64.7	130
117		*	140	*	141	*	143
126	(NA)	13.0	147	13.0	148	13.0	150
						13.0	151
115	27	62.1	124	63.4	127	64.6	130
117		*	140	*	141	*	143
126	(NA)	13.0	147	13.0	148	13.0	150
						13.0	151
115	29	62.0	124	63.2	127	64.5	130
117		*	139	*	141	*	143
126	(NA)	13.0	147	13.0	148	13.0	150
						13.0	151
114	31	61.3	124	62.6	127	63.8	129
117		*	139	*	140	*	142
125	(NA)	13.0	146	13.0	148	13.0	149
						13.0	150
113	33	60.7	123	62.0	126	63.1	128
116		*	138	*	140	*	141
124	(NA)	13.0	145	13.0	147	13.0	148
						13.0	149
112	35	60.0	123	61.3	125	62.4	128
115		*	137	*	139	*	140
124	(NA)	13.0	144	13.0	146	13.0	147
						13.0	148
112	37	59.2	122	60.5	125	61.6	127
115		*	136	*	138	*	139
123	(30)	13.0	143	13.0	145	13.0	146
						13.0	147
111	39	58.5	121	59.8	124	60.9	126
114		*	136	*	137	*	139
122	(32)	13.0	143	13.0	144	13.0	145
						13.0	146
110	41	57.8	120	59.0	123	60.1	126
113		*	135	*	136	*	138
121	(33)	13.0	142	13.0	143	13.0	145
						13.0	145
	41	57.0	119	57.0	119	60.0	125
			134		134		138
		13.0	141	13.0	141	13.0	144
	41	55.0	115	55.0	116	58.0	122
			131		131		135
		13.5	138	13.5	138	13.0	142
	41	53.0	112 CK	53.0	112 CK	56.0	118
			128		128		132
		14.0	135	14.0	135	13.5	139
	41	51.0	108 CK	51.0	109 CK	54.0	115
			125		125		130
		14.0	133	14.0	133	13.5	137
	41	49.0	104 CK	49.0	105 CK	52.0	111 CK
			122		122		127
		14.5	130	14.5	130	14.0	134
	41	47.0	100 CK	47.0	101 CK	50.0	108 CK
			119		119		124
		15.0	127	15.0	127	14.5	131
	41	45.0	96 CK	45.0	97 CK	48.0	104 CK
			116 CK		116 CK		121
		15.5	124 CK	15.5	124 CK	14.5	129

LIMITATION CODES: F = Field length S = 2nd Segment
G = TOW limited by VMCG

SSW					FLAP
MAXIMUM DEPTH					
{ 0.90" (22 mm) of DRY SNOW					
0.25" (6 mm) of SLUSH/WET SNOW					
0.20" (5 mm) of STANDING WATER					
PTOW (ton) / LIMIT CODE					
OAT	WIND (kt)				15
°C	-10	-5	0	10	
-10	60.1 *	61.6 *	63.1 *	64.0 *	
-5	59.9 *	61.4 *	62.8 *	63.7 *	
0	59.6 *	61.1 *	62.6 *	63.4 *	
5	59.3 *	60.8 *	62.3 *	63.2 *	
10	59.2 *	60.7 *	62.2 *	63.1 *	
15	57.4 G	60.4 *	62.0 *	62.8 *	
20	55.4 G	60.2 *	61.7 *	62.6 *	
25	53.2 G	59.9 *	61.5 *	62.3 *	
30	51.5 G	59.4 *	60.9 *	61.8 *	

MAXIMUM LANDING WEIGHT (ton)							
RUNWAY LENGTH LIMITATIONS					CLIMB LIMIT		
Runway Length : 9337 ft (2846 m)					(Go-Around)		
FLAP	40		28		OAT	W	
RWY COND	DRY	WET	DRY	WET	° C	(ton)	
W	-10	75.0	75.0	75.0	75.0	-5	71.7
I	-5	75.0	75.0	75.0	75.0	27	71.7
N	0	75.0	75.0	75.0	75.0	29	71.0
D	10	75.0	75.0	75.0	75.0	31	70.1
	20	75.0	75.0	75.0	75.0	33	69.2
						35	68.3
						37	67.3
For QNH corrections, use values relevant to Go-Around							

WEIGHT CORRECTIONS (kg) for :					
CONDITIONS	TAKEOFF				GO AROUND
	DRY	WET	SSW 15	SSW	
ENG + AIRF A/I ON	-3000	-1900	-1500		-4000
QNH < 1013 (kg/hPa)	-80	-80	-100		-80
QNH > 1013 (kg/hPa)	+30	+30	+30		+30
max Δ hPa :	1				

PSA04RR01 25070818 02 Apr 2009

NOTE : MTOW/MLAW (structural) see AOM Vol.2 Chap.1

ONE ENGINE OUT PROCEDURE :

- At 300 ft QNH, left turn direct to PIS/L or JESSY Holding point.
- Acceleration altitude : 1500 ft QNH

* = Obstacles A = TOW limited by acceleration

Alitalia Compagnia Aerea Italiana MD80 OPERATIONS MANUAL		Elev: 7 ft Length: 8694 ft (2650 m) Slope: +0.03 % Shift: 1125 ft (342 m)	Runway 04R	Airport PISA S. Giusto	LIRP - PSA
JT8D-217A A/C : OFF/ON A/I OFF or ENG A/I ON			PTOW (ton) ; V1 (KIAS) LIMIT CODE ; VR (KIAS) PITCH (deg) ; V2 (KIAS)	02 Apr 2009	

VMCG VRMIN V2MIN	FLAP 11												DRY	OPTIMUM FLAP																																																																																																																																																																																																																																																
	OAT °C	W I N D (kt)												OAT °C	W I N D (kt)																																																																																																																																																																																																																																															
		-10			-5			0			10				8			8			7			7																																																																																																																																																																																																																																						
115 119 128	27 (NA)	63.2 * 14.0	137 142 150	64.7 * 14.0	139 144 152	66.1 * 13.5	141 146 153	66.7 * 13.5	142 147 154	-5	65.4 * 14.0	143 149 156	66.8 * 14.0	146 151 158	68.3 * 14.0	69.0 * 14.0	119 128	29 (NA)	63.1 * 14.0	136 142 150	64.6 * 14.0	139 144 151	65.9 * 13.5	141 146 153	66.6 * 13.5	142 147 154	0	65.0 * 14.0	143 148 156	66.5 * 14.0	145 150 158	67.8 * 14.0	68.7 * 14.0	114 118 127	31 (NA)	62.4 * 14.0	136 142 149	63.8 * 14.0	138 143 151	65.2 * 13.5	140 145 152	65.8 * 13.5	141 146 153	5	64.7 * 14.0	142 148 156	66.3 * 14.0	145 150 157	67.6 * 14.0	68.4 * 14.0	113 118 127	33 (NA)	61.7 * 14.0	135 141 148	63.0 * 14.0	137 142 150	64.4 * 13.5	139 144 151	65.1 * 13.5	141 145 152	10	64.4 * 14.0	142 148 155	66.0 * 14.0	144 150 157	67.3 * 14.0	68.0 * 14.0	113 117 126	35 (NA)	61.0 * 14.0	134 140 147	62.3 * 14.0	136 142 149	63.6 * 13.5	139 143 150	64.3 * 13.5	140 144 151	15	64.2 * 14.0	142 147 155	65.7 * 14.0	144 149 157	67.1 * 14.0	67.8 * 14.0	112 116 125	37 (30)	60.2 * 14.0	133 139 146	61.5 * 14.0	136 141 148	62.8 * 13.5	138 142 149	63.4 * 13.5	139 143 150	20	63.9 * 14.0	141 147 155	65.5 * 14.0	144 149 157	66.9 * 14.0	67.6 * 14.0	111 116 124	39 (32)	59.4 * 14.0	132 138 145	60.7 * 14.0	135 140 147	62.0 * 13.5	137 141 148	62.6 * 13.5	138 142 149	25	63.7 * 14.0	141 147 154	65.2 * 14.0	143 149 156	66.7 * 14.0	148 153 160	67.4 * 14.0	110 115 123	41 (33)	58.6 * 14.0	132 137 144	59.9 * 14.0	134 139 146	61.2 * 13.5	136 141 147	61.8 * 13.5	137 141 148	27	63.6 * 14.0	141 147 154	65.1 * 14.0	143 149 156	66.6 * 14.0	148 153 160	67.3 * 14.0	109 114 123	43 (35)	57.9 * 14.0	131 137 143	59.1 * 14.0	133 138 145	60.4 * 13.5	135 140 146	61.0 * 13.5	136 141 147	29	63.4 * 14.0	140 146 154	65.0 * 14.0	143 148 156	66.4 * 14.0	147 152 159	67.2 * 14.0	149 153 160	109 113 122	45 (37)	57.2 * 14.0	130 136 142	58.3 * 14.0	132 137 144	59.6 * 13.5	135 139 145	60.2 * 13.5	136 140 146	31	62.7 * 14.0	140 146 153	64.2 * 14.0	142 148 155	65.7 * 14.0	147 152 158	66.4 * 14.0	148 153 159	108 112 121	47 (39)	56.4 * 14.0	129 135 141	57.5 * 14.0	131 136 143	58.7 * 13.5	134 138 144	59.3 * 13.5	135 139 145	33	62.0 * 14.0	139 145 152	63.5 * 14.0	141 147 154	64.9 * 14.0	146 151 158	65.6 * 14.0	147 152 158	107 112 120	49 (41)	55.6 * 14.0	128 134 140	56.7 * 14.0	130 135 142	57.9 * 13.5	133 137 143	58.4 * 13.5	134 138 144	35	61.3 * 14.0	138 144 151	62.8 * 14.0	141 146 153	64.2 * 14.0	145 150 157	64.9 * 14.0	146 151 157	37	60.5 * 14.5	137 143 150	62.0 * 14.0	140 145 152	63.3 * 14.0	144 149 155	64.0 * 14.0	145 150 156	60.0 136 142 149	60.0 137 142 149	63.0 144 148 155	62.0 142 147 154	58.0 133 140 147	58.0 134 140 147	61.0 140 146 152	60.0 139 144 151	56.0 130 137 144	56.0 130 137 143	59.0 137 143 150	58.0 136 142 148	54.0 127 134 142	54.0 127 134 142	57.0 134 140 147	56.0 133 139 146	52.0 123 131 139	52.0 124 131 139	55.0 131 137 145	54.0 130 136 143	50.0 120 128 136	50.0 121 128 136	53.0 128 134 142	52.0 126 133 140	48.0 117 125 133	48.0 117 125 133	51.0 124 131 139	50.0 123 130 138	46.0 115 122 131	46.0 115 122 131	49.0 121 128 136	48.0 120 127 135

PISA S. Giusto 04R T/O FROM PSN A

VMCG VRMIN V2MIN	WET FLAP 15						
	OAT °C	WIND (kt)					
		-10	-5	0	10		
115 117 126	-10 (NA)	61.9 * 13.0	124 139 147	63.2 * 13.0	127 141 148	64.4 * 13.0	129 142 150
115 117 126	-5 (NA)	61.7 * 13.0	124 139 146	63.0 * 13.0	127 141 148	64.2 * 13.0	129 142 149
115 117 126	0 (NA)	61.5 * 13.0	124 139 146	62.8 * 13.0	126 140 148	64.0 * 13.0	129 142 149
115 117 126	5 (NA)	61.3 * 13.0	123 138 146	62.6 * 13.0	126 140 148	63.8 * 13.0	129 142 149
115 117 126	10 (NA)	61.2 * 13.0	123 138 146	62.5 * 13.0	126 140 147	63.7 * 13.0	128 142 149
115 117 126	15 (NA)	61.0 * 13.5	122 138 146	62.3 * 13.0	125 140 147	63.5 * 13.0	128 141 150
115 117 126	20 (NA)	60.8 * 13.5	122 138 145	62.1 * 13.0	125 140 147	63.3 * 13.0	128 141 149
115 117 126	25 (NA)	60.6 * 13.5	122 138 145	61.9 * 13.0	125 139 147	63.1 * 13.0	127 141 149
115 117 126	27 (NA)	60.5 * 13.5	122 137 145	61.8 * 13.0	125 139 147	63.1 * 13.0	127 141 149
115 117 126	29 (NA)	60.3 * 13.5	121 137 145	61.7 * 13.0	124 139 146	62.9 * 13.0	127 141 149
114 117 125	31 (NA)	59.7 * 13.5	121 137 144	61.1 * 13.0	124 138 146	62.3 * 13.0	127 140 147
113 116 124	33 (NA)	59.0 * 13.5	120 136 143	60.4 * 13.0	123 138 145	61.6 * 13.0	126 139 146
112 115 124	35 (NA)	58.4 * 13.5	120 135 142	59.7 * 13.0	123 137 144	61.0 * 13.0	125 139 146
112 115 123	37 (30)	57.7 * 13.5	119 134 141	58.9 * 13.0	122 136 143	60.2 * 13.0	125 138 146
111 114 122	39 (32)	57.0 * 13.5	118 134 141	58.3 * 13.0	121 135 142	59.4 * 13.0	124 137 145
110 113 121	41 (33)	56.3 * 13.5	118 133 140	57.6 * 13.0	120 134 141	58.7 * 13.0	123 136 143
	41	56.0 132 13.5	117 132 139	57.0 134 13.0	119 134 141	58.0 135 13.0	122 136 142
	41	54.0 114 CK 130 13.5	117 130 137	55.0 116 131 13.5	118 131 138	56.0 118 132 13.5	120 134 139
	41	52.0 110 CK 127 14.0	117 134 134	53.0 112 CK 128 14.0	117 135 135	54.0 115 130 13.5	117 131 138
	41	50.0 106 CK 124 14.5	117 131 131	51.0 109 CK 125 14.0	117 133 134	52.0 111 CK 127 14.0	117 131 135
	41	48.0 102 CK 121 14.5	117 129 129	49.0 105 CK 122 14.5	117 130 130	50.0 108 CK 124 14.5	117 125 133
	41	46.0 98 CK 118 15.0	117 126 CK 118	47.0 101 CK 119 15.0	117 127 127	48.0 104 CK 121 14.5	117 122 130
	41	44.0 94 CK 115 CK 15.5	117 123 CK 115 CK	45.0 97 CK 116 CK 15.5	117 124 CK 116 CK	46.0 100 CK 118 15.0	117 127 127

SSW				
MAXIMUM DEPTH { 0.90" (22 mm) of DRY SNOW 0.25" (6 mm) of SLUSH/WET SNOW 0.20" (5 mm) of STANDING WATER PTOW (ton) / LIMIT CODE				
OAT °C	WIND (kt)			
	-10	-5	0	10
-10	57.2 G	60.0 *	61.5 *	62.4 *
-5	54.7 G	59.7 *	61.2 *	62.1 *
0	52.1 G	59.4 *	60.9 *	61.8 *
5	49.5 G	59.1 *	60.7 *	61.6 *
10	NO T/O	59.0 *	60.6 *	61.5 *
15	NO T/O	57.4 G	60.3 *	61.2 *
20	NO T/O	55.4 G	60.0 *	60.9 *
25	NO T/O	53.1 G	59.8 *	60.7 *
30	NO T/O	51.5 G	59.1 *	60.1 *

MAXIMUM LANDING WEIGHT (ton)					
RUNWAY LENGTH LIMITATIONS Runway Length : 9337 ft (2846 m)				CLIMB LIMIT (Go-Around)	
FLAP	40		28		OAT
RWY COND	DRY	WET	DRY	WET	°C
W	-10	75.0	75.0	75.0	75.0
I	-5	75.0	75.0	75.0	75.0
N	0	75.0	75.0	75.0	75.0
D	10	75.0	75.0	75.0	75.0
	20	75.0	75.0	75.0	75.0
For QNH corrections, use values relevant to Go-Around					

WEIGHT CORRECTIONS (kg) for :					
CONDITIONS	DRY	WET	SSW 15	SSW	GO AROUND
ENG + AIRF A/I ON	-3000	-1800	-1300		-4000
QNH < 1013 (kg/hPa)	-80	-80	-100		-80
QNH > 1013 (kg/hPa)	+30	+30	+30		+30
max Δ hPa :	1				

PSA04RT01	27070709	02 Apr 2009
NOTE : MTOW/MLAW (structural) see AOM Vol.2 Chap.1		
ONE ENGINE OUT PROCEDURE :		
- At 300 ft QNH, left turn direct to PIS/L or JESSY Holding point. - Acceleration altitude : 1500 ft QNH		

LIMITATION CODES: F = Field length S = 2nd Segment
G = TOW limited by VMCG

* = Obstacles A = TOW limited by acceleration

Alitalia Compagnia Aerea Italiana MD80 OPERATIONS MANUAL		Elev: 7 ft Length: 9820 ft (2993 m) Slope: -0.03 % Shift: 0 ft (0 m)	Runway 22L	Airport PISA S. Giusto	LIRP - PSA
JT8D-217A A/C : OFF/ON A/I OFF or ENG A/I ON			PTOW (ton) ; V1 (KIAS) LIMIT CODE ; VR (KIAS) PITCH (deg) ; V2 (KIAS)	02 Apr 2009	

VMCG VRMIN V2MIN	FLAP 11					DRY	OPTIMUM FLAP				
	OAT °C	W I N D (kt)					OAT °C	W I N D (kt)			
		-10	-5	0	10			-10	-5	0	10
115 119 128	27 (NA)	67.8 *	69.0 *	69.8 S	69.8 S	-5	69.8 *	71.2 *	72.5 *	72.5 *	
115 119 128	29 (NA)	67.7 *	68.9 *	69.7 S	69.7 S	0	69.6 *	71.0 *	72.3 *	72.5 *	
114 118 127	31 (NA)	66.9 * 142 147 13.5 154	68.1 *	68.9 S	68.9 S	5	69.3 *	70.8 *	72.1 *	72.5 *	
113 118 127	33 (NA)	66.2 * 141 146 13.5 153	67.3 * 143 148 13.5 155	68.0 S	68.0 S	10	69.1 *	70.6 *	71.9 *	72.5 *	
113 117 126	35 (NA)	65.4 * 141 145 13.5 152	66.5 * 142 147 13.5 154	67.1 S 148 155	67.1 S 148 155	15	68.9 *	70.4 *	71.7 *	72.3 *	
112 116 125	37 (30)	64.5 * 140 144 13.5 151	65.6 * 141 146 13.5 153	66.1 S 142 146 13.5 153	66.1 S 143 146 13.5 153	20	68.7 *	70.2 *	71.5 *	72.1 *	
111 116 124	39 (32)	63.6 * 139 144 13.5 150	64.7 * 141 145 13.5 152	65.2 S 141 145 13.5 152	65.2 S 142 145 13.5 152	25	68.5 *	70.0 *	71.3 *	71.9 *	
110 115 123	41 (33)	62.8 * 138 143 13.5 149	63.9 * 140 144 13.5 151	64.3 S 141 145 13.5 151	64.3 S 141 145 13.5 151	27	68.4 *	69.9 *	71.2 *	71.8 *	
109 114 123	43 (35)	62.0 * 137 142 13.5 148	63.0 * 139 143 13.5 150	63.4 S 140 144 13.5 150	63.4 S 140 144 13.5 150	29	68.2 *	69.7 *	71.0 *	71.7 *	
109 113 122	45 (37)	61.2 * 136 141 13.5 147	62.2 * 138 142 13.5 149	62.5 S 139 143 13.5 149	62.5 S 139 143 13.5 149	31	67.5 *	68.9 *	70.2 *	70.9 *	
108 112 121	47 (39)	60.3 * 135 140 13.5 146	61.3 * 137 141 13.5 147	61.5 S 137 141 13.5 148	61.5 S 138 141 13.5 148	33	66.7 * 145 149 13.5 156	68.1 *	69.5 *	70.1 *	
107 112 120	49 (41)	59.4 * 134 139 13.5 145	60.4 * 136 140 13.5 146	60.4 S 136 140 13.5 146	60.4 S 137 140 13.5 146	35	65.9 * 144 149 13.5 155	67.3 * 147 152 13.5 159	68.6 *	69.3 *	
	49	59.0 133 138 140 13.5 145	60.0 135 140 140 13.5 146	60.0 136 140 140 13.5 146	60.0 136 140 140 13.5 146	37	65.0 * 143 148 13.5 154	66.5 * 146 151 13.5 158	67.7 *	68.3 *	
	49	57.0 130 136 140 14.0 142	58.0 132 137 143 13.5 143	58.0 133 137 143 13.5 143	58.0 133 137 143 13.5 143		63.0 140 145 14.0 152	66.0 146 150 13.5 157	67.0 149 154 13.5 160	68.0 151 155 13.5 161	
	49	55.0 127 133 140 14.0 140	56.0 129 134 141 14.0 141	56.0 130 134 141 14.0 141	56.0 130 134 141 14.0 141		61.0 137 142 14.0 149	64.0 143 148 14.0 155	65.0 146 151 13.5 158	66.0 148 152 13.5 159	
	49	53.0 124 130 145 14.5 137	54.0 126 132 138 14.0 138	54.0 127 132 138 14.0 138	54.0 127 132 138 14.0 138		59.0 134 140 14.5 147	62.0 140 145 14.0 152	63.0 143 148 14.0 155	64.0 145 150 14.0 156	
	49	51.0 121 127 14.5 134	52.0 123 129 14.5 135	52.0 123 129 14.5 135	52.0 124 129 14.5 135		57.0 130 137 14.5 144	60.0 137 142 14.5 149	61.0 140 146 14.0 152	62.0 142 147 14.0 154	
	49	49.0 117 125 15.0 131	50.0 120 126 15.0 133	50.0 120 126 15.0 133	50.0 121 126 15.0 133		55.0 127 134 15.0 142	58.0 134 140 14.5 147	59.0 137 143 14.5 150	60.0 139 144 14.5 151	
	49	47.0 114 CK 122 15.5 129	48.0 116 123 15.0 130	48.0 117 123 15.0 130	48.0 117 123 15.0 130		53.0 124 131 15.5 139	56.0 130 137 15.0 144	57.0 134 140 14.5 147	58.0 136 142 14.5 148	
	49	45.0 111 CK 119 CK 16.0 126 CK	46.0 113 CK 120 15.5 128 CK	46.0 113 CK 120 15.5 128 CK	46.0 114 CK 120 15.5 128 CK		51.0 121 129 15.5 136	54.0 127 134 15.0 142	55.0 131 137 15.0 145	56.0 133 139 15.0 146	
	49	43.0 107 CK 115 CK 16.0 123 CK	44.0 109 CK 117 CK 16.0 125 CK	44.0 110 CK 117 CK 16.0 125 CK	44.0 110 CK 117 CK 16.0 125 CK		49.0 117 126 16.0 133	52.0 124 131 15.5 139	53.0 128 134 15.5 142	54.0 130 136 15.0 143	

LIMITATION CODES: F = Field length S = 2nd Segment * = Obstacles T = Tire speed B = Brake energy
C = Approach climb BLANK = No limitations

PISA S. Giusto 22L

VMCG VRMIN V2MIN	WET FLAP 15						
	OAT °C	WIND (kt)					
		-10	-5	0	10		
115 117 126	-10 (NA)	66.0 * 12.5	130 144 151	67.1 * 151	68.0 F 151	68.0 F 151	
115 117 126	-5 (NA)	65.8 * 12.5	130 144 151	67.0 * 151	67.9 * 151	68.0 F 151	
115 117 126	0 (NA)	65.7 * 13.0	130 144 151	66.8 * 12.5	132 145 152	67.8 * 152	68.0 F 152
115 117 126	5 (NA)	65.5 * 13.0	130 144 151	66.6 * 12.5	132 145 152	67.7 * 152	68.0 F 152
115 117 126	10 (NA)	65.4 * 13.0	129 144 151	66.6 * 12.5	132 145 152	67.6 * 152	68.0 F 152
115 117 126	15 (NA)	65.2 * 13.0	129 143 151	66.4 * 12.5	132 145 152	67.4 * 152	68.0 F 152
115 117 126	20 (NA)	65.0 * 13.0	129 143 150	66.2 * 12.5	131 145 152	67.3 * 152	67.9 * 152
115 117 126	25 (NA)	64.8 * 13.0	128 143 150	66.0 * 12.5	131 144 152	67.1 * 152	67.8 * 152
115 117 126	27 (NA)	64.7 * 13.0	128 143 150	66.0 * 12.5	131 144 151	67.1 * 151	67.7 * 151
115 117 126	29 (NA)	64.5 * 13.0	128 143 150	65.8 * 12.5	131 144 151	66.9 * 12.5	133 146 153
114 117 125	31 (NA)	63.9 * 13.0	128 142 149	65.1 * 12.5	130 144 150	66.3 * 12.5	133 145 152
113 116 124	33 (NA)	63.2 * 13.0	127 141 148	64.4 * 12.5	130 143 150	65.5 * 12.5	132 144 151
112 115 124	35 (NA)	62.5 * 13.0	126 140 147	63.6 * 12.5	129 142 149	64.7 * 12.5	131 143 150
112 115 123	37 (30)	61.7 * 13.0	126 140 146	62.8 * 12.5	128 141 148	63.9 * 12.5	130 142 149
111 114 122	39 (32)	61.0 * 13.0	125 139 146	62.1 * 12.5	127 140 147	63.1 * 12.5	130 141 149
110 113 121	41 (33)	60.2 * 13.0	124 138 145	61.3 * 12.5	127 139 146	62.3 * 12.5	129 141 148
	41	60.0 13.0	124 138 144	61.0 12.5	126 139 146	62.0 140 147	129 140 147
	41	58.0 13.0	120 135 142	59.0 123 143	126 136 143	60.0 138 144	125 138 144
	41	56.0 13.5	117 132 139	57.0 119 134	122 134 141	58.0 122 135	122 135 142
	41	54.0 13.5	113 CK 130 137	55.0 116 138	118 131 138	56.0 118 132	119 132 139
	41	52.0 14.0	110 CK 127 134	53.0 112 CK 128 135	115 130 137	54.0 115 130	115 130 137
	41	50.0 14.5	106 CK 124 131	51.0 108 CK 125 133	111 CK 127 134	52.0 111 CK 127	112 CK 127 134
	41	48.0 14.5	102 CK 121 129	49.0 105 CK 122 130	107 CK 124 131	50.0 107 CK 124	108 CK 124 131

LIMITATION CODES: F = Field length S = 2nd Segment
G = TOW limited by VMCG

SSW				MAXIMUM DEPTH	
				{ 0.90" (22 mm) of DRY SNOW 0.25" (6 mm) of SLUSH/WET SNOW 0.20" (5 mm) of STANDING WATER PTOW (ton) / LIMIT CODE	
OAT	WIND (kt)				FLAP
°C	-10	-5	0	10	
-10	62.0	63.6	65.3	66.2	15
-5	61.6	63.3	65.0	65.9	
0	61.2	62.9	64.6	65.6	
5	60.8	62.5	64.3	65.2	
10	59.1	62.4	64.1	65.1	
15	57.1	62.1	63.8	64.8	
20	55.1	61.7	63.4	64.5	
25	52.8	61.4	63.1	64.1	
30	51.1	60.7	62.4	63.4	

MAXIMUM LANDING WEIGHT (ton)					
RUNWAY LENGTH LIMITATIONS Runway Length : 8986 ft (2739 m)				CLIMB LIMIT (Go-Around)	
FLAP	40		28		OAT
RWY COND	DRY	WET	DRY	WET	°C
W	-10	75.0	75.0	75.0	75.0
I	-5	75.0	75.0	75.0	75.0
N	0	75.0	75.0	75.0	75.0
D	10	75.0	75.0	75.0	75.0
	20	75.0	75.0	75.0	75.0
For QNH corrections, use values relevant to Go-Around					
					-5
					27
					29
					31
					33
					35
					37
					71.7
					71.7
					71.0
					70.1
					69.2
					68.3
					67.3

WEIGHT CORRECTIONS (kg) for :					
CONDITIONS	TAKEOFF				GO AROUND
	DRY	WET	SSW 15	SSW	
ENG + AIRF A/I ON	-3000	-2000	-1400		-4000
QNH < 1013 (kg/hPa)	-80	-80	-100		-80
QNH > 1013 (kg/hPa)	+30	+30	+30		+30
max Δ hPa :	1				

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NOTE : MTOW/MLAW (structural) see AOM Vol.2 Chap.1

ONE ENGINE OUT PROCEDURE :

- PIS/L or JESSY Holding point.
- Acceleration altitude: 1500 ft QNH

* = Obstacles A = TOW limited by acceleration

Alitalia Compagnia Aerea Italiana MD80 OPERATIONS MANUAL		Elev: 7 ft Length: 8694 ft (2650 m) Slope: -0.03 % Shift: 1125 ft (342 m)	Runway 22L	Airport PISA S. Giusto	LIRP - PSA
JT8D-217A A/C : OFF/ON A/I OFF or ENG A/I ON			PTOW (ton) ; V1 (KIAS) LIMIT CODE ; VR (KIAS) PITCH (deg) ; V2 (KIAS)	02 Apr 2009	

VMCG VRMIN V2MIN	FLAP 11						DRY	OPTIMUM FLAP							
	OAT °C	W I N D (kt)							OAT °C	W I N D (kt)					
		-10	-5	0	10			-10	-5	0	10				
115 119 128	27 (NA)	66.0 * 13.5	141 146 153	67.6 * 153	68.9 * 154	69.5 * 154		-5	67.8 * 13.5	69.3 * 154	70.8 * 154	71.3 * 154			
115 119 128	29 (NA)	65.8 F 13.5	140 146 153	67.4 * 153	68.7 * 154	69.3 * 154		0	67.5 * 13.5	69.1 * 154	70.6 * 154	71.2 * 154			
114 118 127	31 (NA)	65.1 * 13.5	140 145 152	66.7 * 13.5	142 147 154	67.9 * 154	68.5 * 154	5	67.3 * 13.5	68.9 * 154	70.4 * 154	71.0 * 154			
113 118 127	33 (NA)	64.4 * 13.5	139 144 151	65.9 * 13.5	141 146 153	67.1 * 13.5	143 148 155	10	67.1 * 13.5	68.6 * 154	70.2 * 154	70.8 * 154			
113 117 126	35 (NA)	63.7 * 13.5	138 143 150	65.2 * 13.5	141 145 152	66.3 * 13.5	142 147 154	15	66.8 * 13.5	68.4 * 154	70.0 * 154	70.6 * 154			
112 116 125	37 (30)	62.9 * 13.5	137 142 149	64.3 * 13.5	140 144 151	65.4 * 13.5	141 146 153	20	66.5 * 13.5	68.1 * 154	69.7 * 154	70.4 * 154			
111 116 124	39 (32)	62.1 * 13.5	136 142 148	63.4 * 13.5	139 143 150	64.6 * 13.5	141 145 151	25	66.2 * 13.5	67.8 * 153	69.4 * 153	70.2 * 153			
110 115 123	41 (33)	61.3 * 13.5	136 141 147	62.7 * 13.5	138 142 149	63.7 * 13.5	140 144 150	27	66.0 * 13.5	67.7 * 153	69.3 * 153	70.1 * 153			
109 114 123	43 (35)	60.6 * 13.5	135 140 147	61.9 * 13.5	137 142 148	62.9 * 13.5	139 143 149	29	65.8 F 13.5	67.5 * 153	69.1 * 153	69.9 * 153			
109 113 122	45 (37)	59.9 * 13.5	134 139 146	61.1 * 13.5	136 141 147	62.1 * 13.5	138 142 148	31	65.1 * 13.5	66.8 * 152	68.4 * 155	69.2 * 155			
108 112 121	47 (39)	59.0 * 13.5	133 138 145	60.2 * 13.5	135 140 146	61.2 * 13.5	137 141 147	33	64.4 * 13.5	66.0 * 151	67.6 * 154	68.4 * 154			
107 112 120	49 (41)	58.2 * 13.5	132 137 144	59.2 * 13.5	134 139 145	60.3 * 13.5	136 140 146	35	63.7 * 13.5	65.3 * 153	66.8 * 157	67.6 * 157			
	49	58.0	132 137 13.5	59.0	134 138 145	60.0	136 140 146	37	62.9 * 13.5	64.4 * 149	66.0 145 149	66.7 * 150	146 150 156		
	49	56.0	129 134 14.0	57.0	131 136 142	58.0	133 137 143		62.0 141 148	64.0 145 152	64.0 142 146	66.0 145 149	145 149 155		
	49	54.0	126 132 14.0	55.0	128 133 140	56.0	130 134 141		60.0 139 146	62.0 142 149	62.0 139 144	64.0 142 146	142 146 153		
	49	52.0	122 129 14.5	53.0	124 130 137	54.0	127 132 138		58.0 136 143	60.0 140 147	60.0 136 141	62.0 139 144	139 144 150		
	49	50.0	119 126 15.0	51.0	121 127 134	52.0	123 129 135		56.0 133 141	58.0 137 144	58.0 133 138	60.0 136 141	136 141 148		
	49	48.0	116 123 15.0	49.0	118 125 131	50.0	120 126 133		54.0 131 138	56.0 134 142	56.0 130 136	58.0 133 138	133 138 145		
	49	46.0	112CK 120 15.5	47.0	115CK 122 129	48.0	117 123 130		52.0 128 135	54.0 132 139	54.0 126 133	56.0 130 136	130 136 143		
	49	44.0	109CK 117CK 16.0	45.0	111CK 119CK 126CK	46.0	113CK 120 128CK		50.0 125 133	52.0 129 136	52.0 123 130	54.0 127 133	127 133 140		
	49	42.0	105CK 114CK 16.0	43.0	108CK 115CK 123CK	44.0	110CK 117CK 125CK		48.0 122 130	50.0 126 134	50.0 120 127	52.0 123 130	123 130 137		

LIMITATION CODES: F = Field length S = 2nd Segment * = Obstacles T = Tire speed B = Brake energy
C = Approach climb BLANK = No limitations

T/O FROM PSN D

PISA S. Giusto 22L T/O FROM PSN D

VMCG VRMIN V2MIN	WET FLAP 15						
	OAT °C	WIND (kt)					
		-10		-5		0	10
115	-10	64.7	128	65.9	131	67.0	67.6
117		*	143	*	144	*	*
126	(NA)	13.0	150	12.5	151		
115	-5	64.4	128	65.7	131	66.8	67.5
117		*	142	*	144	*	*
126	(NA)	13.0	150	12.5	151		
115	0	64.1	128	65.6	130	66.7	67.3
117		*	142	*	144	*	*
126	(NA)	13.0	149	13.0	151	12.5	152
115	5	63.8	127	65.3	130	66.5	67.2
117		*	142	*	143	*	*
126	(NA)	13.0	149	13.0	151	12.5	152
115	10	63.6	126	65.2	129	66.4	67.1
117		*	141	*	143	*	*
126	(NA)	13.0	149	13.0	150	12.5	152
115	15	63.3	126	64.9	129	66.2	66.9
117		*	141	*	143	*	*
126	(NA)	13.0	148	13.0	150	12.5	152
115	20	63.1	126	64.6	129	65.9	66.8
117		*	141	*	143	*	*
126	(NA)	13.0	148	13.0	150	12.5	152
115	25	62.8	125	64.3	128	65.7	66.5
117		*	140	*	142	*	*
126	(NA)	13.0	148	13.0	149	12.5	151
115	27	62.7	125	64.2	128	65.6	66.4
117		*	140	*	142	*	*
126	(NA)	13.0	148	13.0	149	13.0	151
115	29	62.5	125	64.0	128	65.4	66.3
117		*	140	*	142	*	*
126	(NA)	13.0	147	13.0	149	13.0	151
114	31	61.9	124	63.3	127	64.7	65.6
117		*	139	*	141	*	*
125	(NA)	13.0	147	13.0	148	13.0	150
113	33	61.3	124	62.7	127	64.0	64.9
116		*	139	*	141	*	*
124	(NA)	13.0	146	13.0	148	13.0	149
112	35	60.6	123	62.0	126	63.3	64.1
115		*	138	*	140	*	*
124	(NA)	13.0	145	13.0	147	13.0	148
112	37	59.9	123	61.3	126	62.5	63.3
115		*	137	*	139	*	*
123	(30)	13.0	144	13.0	146	12.5	147
111	39	59.1	122	60.6	125	61.8	62.6
114		*	136	*	138	*	*
122	(32)	13.0	143	13.0	145	12.5	147
110	41	58.4	121	59.8	124	61.1	61.8
113		*	136	*	137	*	*
121	(33)	13.0	142	13.0	144	12.5	146
	41	58.0	120	59.0	123	61.0	61.0
			135		136		139
		13.0	142	13.0	143	12.5	146
	41	56.0	117	57.0	119	59.0	59.0
			132		134		136
		13.5	139	13.0	141	13.0	143
	41	54.0	113CK	55.0	116	57.0	57.0
			130		131		134
		13.5	137	13.5	138	13.0	141
	41	52.0	110CK	53.0	112CK	55.0	55.0
			127		128		131
		14.0	134	14.0	135	13.5	138
	41	50.0	106CK	51.0	108CK	53.0	53.0
			124		125		128
		14.5	131	14.0	133	14.0	135
	41	48.0	102CK	49.0	105CK	51.0	51.0
			121		122		125
		14.5	129	14.5	130	14.0	133
	41	46.0	98 CK	47.0	101 CK	49.0	49.0
			118		119		122
		15.0	126CK	15.0	127	14.5	130

SSW					MAXIMUM DEPTH	
					{ 0.90" (22 mm) of DRY SNOW 0.25" (6 mm) of SLUSH/WET SNOW 0.20" (5 mm) of STANDING WATER PTOW (ton) / LIMIT CODE	
OAT	WIND (kt)				FLAP	
°C	-10	-5	0	10		
-10	58.3	G	61.6	*	63.3	*
-5	55.8	G	61.1	*	62.9	*
0	53.3	G	60.7	*	62.6	*
5	50.7	G	60.4	*	62.2	*
10	48.6	G	60.2	*	62.1	*
15	NO T/O		59.7	F	61.7	*
20	NO T/O		59.2	F	61.3	*
25	NO T/O		54.3	G	60.8	F
30	NO T/O		52.7	G	60.1	F

MAXIMUM LANDING WEIGHT (ton)					
RUNWAY LENGTH LIMITATIONS				CLIMB LIMIT (Go-Around)	
Runway Length : 8986 ft (2739 m)					
FLAP	40		28		
RWY COND	DRY	WET	DRY	WET	
					°C
W	-10	75.0	75.0	75.0	75.0
I	-5	75.0	75.0	75.0	75.0
N	0	75.0	75.0	75.0	75.0
D	10	75.0	75.0	75.0	75.0
	20	75.0	75.0	75.0	75.0
For QNH corrections, use values relevant to Go-Around					
					-5
					27
					29
					31
					33
					35
					37
					71.7
					71.7
					71.0
					70.1
					69.2
					68.3
					67.3

WEIGHT CORRECTIONS (kg) for :					
CONDITIONS	TAKEOFF				GO AROUND
	DRY	WET	SSW 15	SSW	
ENG + AIRF A/I ON	-3000	-1800	-2600		-4000
QNH < 1013 (kg/hPa)	-80	-80	-170		-80
QNH > 1013 (kg/hPa)	+30	+30	+30		+30
max Δ hPa :	1				

PSA22LT01	27070700	02 Apr 2009
NOTE : MTOW/MLAW (structural) see AOM Vol.2 Chap.1		
ONE ENGINE OUT PROCEDURE :		
- PIS/L or JESSY Holding point.		
- Acceleration altitude: 1500 ft QNH		

LIMITATION CODES: F = Field length S = 2nd Segment
G = TOW limited by VMCG

* = Obstacles A = TOW limited by acceleration

Alitalia Compagnia Aerea Italiana MD80 OPERATIONS MANUAL		Elev: 7 ft Length: 8163 ft (2488 m) Slope: +0.05 % Shift: 0 ft (0 m)	Runway 04L	Airport PISA S. Giusto	LIRP - PSA
JT8D-217A A/C : OFF/ON A/I OFF or ENG A/I ON			PTOW (ton) ; V1 (KIAS) LIMIT CODE ; VR (KIAS) PITCH (deg) ; V2 (KIAS)	02 Apr 2009	

VMCG VRMIN V2MIN	FLAP 15 DRY						
	OAT °C	W I N D (kt)					
		-10	-5	0	10		
115	27	62.8	135	64.1	137	65.4	139
117		*	140	*	142	*	144
126	(NA)	13.0	148	13.0	149	13.0	151
						12.5	152
115	29	62.6	134	64.0	137	65.3	139
117		*	140	*	142	*	144
126	(NA)	13.0	148	13.0	149	13.0	151
						12.5	152
114	31	62.0	134	63.3	136	64.6	138
117		*	140	*	141	*	143
125	(NA)	13.0	147	13.0	148	13.0	150
						12.5	151
113	33	61.4	133	62.6	135	63.8	138
116		*	139	*	141	*	142
124	(NA)	13.0	146	13.0	147	13.0	149
						12.5	150
112	35	60.7	133	61.9	135	63.1	137
115		*	138	*	140	*	141
124	(NA)	13.0	145	13.0	147	13.0	148
						12.5	149
112	37	59.9	132	61.2	134	62.3	136
115		*	137	*	139	*	140
123	(30)	13.0	144	13.0	146	13.0	147
						12.5	148
111	39	59.2	131	60.4	133	61.6	135
114		*	136	*	138	*	140
122	(32)	13.0	143	13.0	145	13.0	146
						12.5	147
110	41	58.4	130	59.7	133	60.9	135
113		*	136	*	137	*	139
121	(33)	13.0	142	13.0	144	13.0	145
						12.5	146
109	43	57.7	130	58.9	132	60.0	134
112		*	135	*	136	*	138
121	(35)	13.0	142	13.0	143	13.0	144
						12.5	145
108	45	56.9	129	58.1	131	59.2	133
112		*	134	*	136	*	137
120	(37)	13.0	141	13.0	142	12.5	143
						12.5	144
107	47	56.1	128	57.3	130	58.3	132
111		*	133	*	135	*	136
119	(39)	13.0	140	13.0	141	12.5	142
						12.5	143
107	49	55.3	127	56.5	129	57.5	131
110		*	132	*	134	*	135
118	(41)	13.0	138	13.0	140	13.0	141
						12.5	142
	49	55.0	127	56.0	128	57.0	130
			132		133		134
		13.0	138	13.0	139	13.0	141
						12.5	142
	49	53.0	123	54.0	125	55.0	127
			129		130		132
		13.5	135	13.0	137	13.0	138
						13.0	139
	49	51.0	120	52.0	122	53.0	124
			126		127		129
		13.5	133	13.5	134	13.5	135
						13.0	137
	49	49.0	117	50.0	119	51.0	121
			123		125		126
		14.0	130	14.0	131	13.5	133
						13.5	134
	49	47.0	113 CK	48.0	115	49.0	117
			120		122		123
		14.5	127	14.0	129	14.0	130
						14.0	131
	49	45.0	110 CK	46.0	112 CK	47.0	114 CK
			117 CK		119		120
		14.5	124 CK	14.5	126 CK	14.5	127
						14.0	129
	49	43.0	106 CK	44.0	108 CK	45.0	111 CK
			114 CK		115 CK		117 CK
		15.0	122 CK	15.0	123 CK	14.5	124 CK
						14.5	126 CK
	49	41.0	103 CK	42.0	105 CK	43.0	107 CK
			111 CK		112 CK		114 CK
		15.5	119 CK	15.5	120 CK	15.0	122 CK
						15.0	123 CK
	49			40.0	101 CK	41.0	103 CK
					109 CK		111 CK
					117 CK		119 CK
						15.5	120 CK

MAXIMUM LANDING WEIGHT (ton)					
RUNWAY LENGTH LIMITATIONS				CLIMB LIMIT (Go-Around)	
Runway Length : 8163 ft (2488 m)					
FLAP	40		28		
RWY COND	DRY	WET	DRY	WET	
					OAT °C
W -10	75.0	75.0	75.0	75.0	-5
I -5	75.0	75.0	75.0	75.0	27
N 0	75.0	75.0	75.0	75.0	29
D 10	75.0	75.0	75.0	75.0	31
20	75.0	75.0	75.0	75.0	33
					35
					37
For QNH corrections, use values relevant to Go-Around				W (ton)	
				71.7	
				71.7	
				71.0	
				70.1	
				69.2	
				68.3	
				67.3	

WEIGHT CORRECTIONS (kg) for :					
CONDITIONS	TAKEOFF				GO AROUND
	DRY	WET	SSW 15	SSW	
ENG + AIRF A/I ON	-3000				-4000
QNH < 1013 (kg/hPa)	-80				-80
QNH > 1013 (kg/hPa)	+30				+30
max Δ hPa :	1				

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NOTE : MTOW/MLAW (structural) see AOM Vol.2 Chap.1

ONE ENGINE OUT PROCEDURE :

- At 300 ft QNH, left turn direct to PIS/L or JESSY Holding point.

- Acceleration altitude : 1500 ft QNH

LIMITATION CODES: F = Field length S = 2nd Segment * = Obstacles T = Tire speed B = Brake energy
C = Approach climb BLANK = No limitations

Alitalia Compagnia Aerea Italiana MD80 OPERATIONS MANUAL	Elev: 7 ft Length: 8163 ft (2488 m) Slope: -0.05 % Shift: 0 ft (0 m)	Runway 22R	Airport PISA S. Giusto PTOW (ton) ; V1 (KIAS) LIMIT CODE ; VR (KIAS) PITCH (deg) ; V2 (KIAS)
			LIRP - PSA 02 Apr 2009

JT8D-217A
A/C : OFF/ON
A/I OFF or ENG A/I ON

VMCG VRMIN V2MIN	FLAP 15 DRY										
	OAT °C	W I N D (kt)									
		-10		-5		0		10			
115 117 126	27 (NA)	63.8 F 13.0	136 142 149	65.9 F 12.5	139 144 151	67.5 * 		68.3 * 			
115 117 126	29 (NA)	63.5 F 13.0	135 141 149	65.7 F 12.5	139 144 151	67.4 * 		68.1 * 			
114 117 125	31 (NA)	62.9 F 13.0	135 141 148	65.1 F 12.5	139 143 150	66.8 * 12.5	142 145 152	67.4 * 			
113 116 124	33 (NA)	62.4 F 13.0	135 140 147	64.5 F 12.5	138 143 150	66.0 * 12.5	141 145 152	66.7 * 12.5	142 146 152		
112 115 124	35 (NA)	61.8 F 13.0	134 140 147	63.9 F 12.5	138 142 149	65.3 * 12.5	140 144 151	65.9 S 12.5	141 145 151		
112 115 123	37 (30)	61.2 F 13.0	134 139 146	63.2 F 12.5	137 142 148	64.4 * 12.5	139 143 150	64.9 S 12.5	140 144 150		
111 114 122	39 (32)	60.5 F 13.0	133 138 145	62.5 * 12.5	136 141 147	63.5 * 12.5	138 142 149	64.1 S 12.5	140 143 149		
110 113 121	41 (33)	59.8 F 13.0	132 137 144	61.8 * 12.5	136 140 147	62.8 * 12.5	138 141 148	63.2 S 12.5	139 142 148		
109 112 121	43 (35)	59.1 F 13.0	132 137 143	61.0 * 12.5	135 139 146	62.0 * 12.5	137 140 147	62.4 S 12.5	138 141 147		
108 112 120	45 (37)	58.4 F 13.0	131 136 142	60.1 * 12.5	134 138 145	61.1 * 12.5	136 139 146	61.5 S 12.5	137 140 146		
107 111 119	47 (39)	57.7 F 13.0	130 135 142	59.2 * 12.5	133 137 143	60.2 * 12.5	135 138 145	60.5 S 12.5	136 139 145		
107 110 118	49 (41)	57.1 F 13.0	130 134 141	58.3 * 12.5	132 136 142	59.3 * 12.5	134 137 144	59.5 S 12.5	135 138 144		
	49	57.0	130 134 13.0	132 136 141	58.0 132 142	59.0 133 137 12.5	133 137 143	59.0 134 137 12.5	134 137 143		
	49	55.0	126 132 13.0	128 133 138	56.0 128 139	57.0 130 134 13.0	130 134 141	57.0 130 134 13.0	130 134 141		
	49	53.0	123 129 13.5	125 130 135	54.0 125 137	55.0 127 132 13.0	127 132 138	55.0 127 132 13.0	127 132 138		
	49	51.0	120 126 13.5	122 127 133	52.0 122 134	53.0 124 129 13.5	124 129 135	53.0 124 129 13.5	124 129 135		
	49	49.0	116 123 14.0	118 125 130	50.0 118 131	51.0 120 126 13.5	120 126 133	51.0 121 126 13.5	121 126 133		
	49	47.0	113 CK 120 14.5	115 122 127	48.0 115 129	49.0 117 123 14.0	117 123 130	49.0 117 123 14.0	117 123 130		
	49	45.0	110 CK 117 CK 14.5	112 CK 119 126 CK	46.0 112 CK 126 CK	47.0 114 CK 120 127	114 CK 120 127	47.0 114 CK 120 127	114 CK 120 127		
	49	43.0	106 CK 114 CK 15.0	108 CK 115 CK 123 CK	44.0 108 CK 123 CK	45.0 110 CK 117 CK 14.5	110 CK 117 CK 124 CK	45.0 111 CK 117 CK 14.5	111 CK 117 CK 124 CK		
	49	41.0	102 CK 111 CK 15.5	105 CK 112 CK 119 CK	42.0 105 CK 120 CK	43.0 107 CK 114 CK 15.0	107 CK 114 CK 122 CK	43.0 107 CK 114 CK 15.0	107 CK 114 CK 122 CK		

LIMITATION CODES:
F = Field length
S = 2nd Segment
* = Obstacles
T = Tire speed
B = Brake energy
C = Approach climb
BLANK = No limitations

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NOTE : MTOW/MLAW (structural) see AOM Vol.2 Chap.1

ONE ENGINE OUT PROCEDURE :

- PIS/L or JESSY Holding point.

- Acceleration altitude : 1500 ft QNH

Alitalia Compagnia Aerea Italiana MD80 OPERATIONS MANUAL	Elev: 7 ft Length: 9820 ft (2993 m) Slope: +0.03 % Shift: 0 ft (0 m)	Runway 04R	Airport PISA S. Giusto	LIRP - PSA 02 Apr 2009
	JT8D-217A A/C : OFF/ON A/I OFF or ENG A/I ON	PTOW (ton) : V1 (KIAS) LIMIT CODE : VR (KIAS) PITCH (deg) : V2 (KIAS)		

VMCG VRMIN V2MIN	FLAP 15 DRY						
	OAT °C	W I N D (kt)					
		-10	-5	0	10		
115	27	64.1	137	65.4	139	66.6	141
117		*	142	*	144	*	145
126	(NA)	13.0	149	13.0	151	12.5	152
115	29	64.0	136	65.3	139	66.5	141
117		*	142	*	144	*	145
126	(NA)	13.0	149	13.0	151	12.5	152
114	31	63.3	136	64.6	138	65.8	140
117		*	141	*	143	*	144
125	(NA)	13.0	148	13.0	150	12.5	151
113	33	62.6	135	63.8	137	65.1	139
116		*	141	*	142	*	144
124	(NA)	13.0	148	13.0	149	12.5	150
112	35	62.0	135	63.1	137	64.3	139
115		*	140	*	141	*	143
124	(NA)	13.0	147	13.0	148	12.5	149
112	37	61.2	134	62.4	136	63.4	138
115		*	139	*	140	*	142
123	(30)	13.0	146	13.0	147	12.5	148
111	39	60.5	133	61.6	135	62.7	137
114		*	138	*	140	*	141
122	(32)	13.0	145	13.0	146	12.5	148
110	41	59.7	132	60.9	134	61.9	136
113		*	137	*	139	*	140
121	(33)	13.0	144	13.0	145	12.5	147
109	43	58.9	131	60.1	134	61.1	136
112		*	136	*	138	*	139
121	(35)	13.0	143	13.0	144	12.5	146
108	45	58.1	131	59.2	133	60.3	135
112		*	136	*	137	*	138
120	(37)	13.0	142	12.5	143	12.5	145
107	47	57.3	130	58.3	132	59.3	134
111		*	135	*	136	*	137
119	(39)	13.0	141	13.0	142	12.5	144
107	49	56.5	129	57.5	131	58.5	133
110		*	134	*	135	*	136
118	(41)	13.0	140	12.5	141	12.5	143
49		56.0	128	57.0	130	58.0	132
		133	133	134	136	136	134
		13.0	139	13.0	141	12.5	142
49		54.0	125	55.0	127	56.0	129
		130	130	132	133	133	132
		13.0	137	13.0	138	13.0	139
49		52.0	122	53.0	123	54.0	125
		127	127	129	130	130	129
		13.5	134	13.5	135	13.0	137
49		50.0	118	51.0	120	52.0	122
		125	125	126	127	127	126
		14.0	131	13.5	133	13.5	134
49		48.0	115	49.0	117	50.0	119
		122	122	123	125	125	123
		14.0	129	14.0	130	14.0	131
49		46.0	111 CK	47.0	114 CK	48.0	116
		119	119	120	122	122	120
		14.5	126 CK	14.5	127	14.0	129
49		44.0	108 CK	45.0	110 CK	46.0	112 CK
		115 CK	115 CK	117 CK	119	119	117 CK
		15.0	123 CK	14.5	124 CK	14.5	126 CK
49		42.0	104 CK	43.0	107 CK	44.0	109 CK
		112 CK	112 CK	114 CK	115 CK	115 CK	114 CK
		15.5	120 CK	15.0	122 CK	15.0	123 CK
49		40.0	101 CK	41.0	103 CK	42.0	105 CK
		109 CK	109 CK	111 CK	112 CK	112 CK	111 CK
		15.5	117 CK	15.5	119 CK	15.5	120 CK

MAXIMUM LANDING WEIGHT (ton)					
RUNWAY LENGTH LIMITATIONS				CLIMB LIMIT (Go-Around)	
Runway Length : 9337 ft (2846 m)					
FLAP	40		28		
RWY COND	DRY	WET	DRY	WET	
W -10	75.0	75.0	75.0	75.0	-5
I -5	75.0	75.0	75.0	75.0	27
N 0	75.0	75.0	75.0	75.0	29
D 10	75.0	75.0	75.0	75.0	31
20	75.0	75.0	75.0	75.0	33
					35
					37
For QNH corrections, use values relevant to Go-Around					

WEIGHT CORRECTIONS (kg) for :					
CONDITIONS	TAKEOFF			GO AROUND	
	DRY	WET	SSW 15	SSW	
ENG + AIRF A/I ON	-3000				-4000
QNH < 1013 (kg/hPa)	-80				-80
QNH > 1013 (kg/hPa)	+30				+30
max Δ hPa :	1				

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NOTE : MTOW/MLAW (structural) see AOM Vol.2 Chap.1
ONE ENGINE OUT PROCEDURE :
- At 300 ft QNH, left turn direct to PIS/L or JESSY Holding point.
- Acceleration altitude : 1500 ft QNH

LIMITATION CODES: F = Field length S = 2nd Segment * = Obstacles T = Tire speed B = Brake energy
C = Approach climb BLANK = No limitations

Alitalia Compagnia Aerea Italiana MD80 OPERATIONS MANUAL	Elev: 7 ft Length: 9820 ft (2993 m) Slope: -0.03 % Shift: 0 ft (0 m)	Runway 22L	Airport PISA S. Giusto PTOW (ton) ; V1 (KIAS) LIMIT CODE ; VR (KIAS) PITCH (deg) ; V2 (KIAS)
			LIRP - PSA 02 Apr 2009

JT8D-217A
A/C : OFF/ON
A/I OFF or ENG A/I ON

VMCG VRMIN V2MIN	FLAP 15 DRY										
	OAT °C	W I N D (kt)									
		-10		-5		0		10			
115 117 126	27 (NA)	66.9 *		67.9 *		68.4 S		68.4 S			
115 117 126	29 (NA)	66.7 * 12.5	141 145 152	67.8 *		68.4 S		68.4 S			
114 117 125	31 (NA)	66.0 * 12.5	140 145 152	67.2 * 12.5	142 146 153	67.5 S		67.5 S			
113 116 124	33 (NA)	65.3 * 12.5	139 144 151	66.4 * 12.5	141 145 152	66.7 S 12.5	142 146 152	66.7 S 12.5	142 146 152		
112 115 124	35 (NA)	64.6 * 12.5	139 143 150	65.7 * 12.5	141 144 151	65.9 S 12.5	141 145 151	65.9 S 12.5	142 145 151		
112 115 123	37 (30)	63.7 * 12.5	138 142 149	64.8 * 12.5	140 143 150	64.9 S 12.5	140 144 150	64.9 S 12.5	141 144 150		
111 114 122	39 (32)	62.9 * 12.5	137 141 148	64.0 * 12.5	139 143 149	64.1 S 12.5	139 143 149	64.1 S 12.5	140 143 149		
110 113 121	41 (33)	62.2 * 12.5	136 140 147	63.2 * 12.5	138 142 148	63.2 S 12.5	138 142 148	63.2 S 12.5	139 142 148		
109 112 121	43 (35)	61.4 * 12.5	135 140 146	62.3 * 12.5	137 141 147	62.4 S 12.5	137 141 147	62.4 S 12.5	138 141 147		
108 112 120	45 (37)	60.5 * 12.5	134 139 145	61.5 S 12.5	136 140 146	61.5 S 12.5	136 140 146	61.5 S 12.5	137 140 146		
107 111 119	47 (39)	59.6 * 12.5	133 138 144	60.5 S 12.5	135 139 145	60.5 S 12.5	135 139 145	60.5 S 12.5	136 139 145		
107 110 118	49 (41)	58.7 * 12.5	133 137 143	59.5 S 12.5	134 138 144	59.5 S 12.5	134 138 144	59.5 S 12.5	135 138 144		
	49	58.0 12.5	131 136 142	59.0 133 137 143	59.0 133 137 143	59.0 133 137 143	59.0 133 137 143	59.0 134 137 143			
	49	56.0 13.0	128 133 139	57.0 130 134 141	57.0 130 134 141	57.0 130 134 141	57.0 130 134 141	57.0 130 134 141			
	49	54.0 13.0	125 130 137	55.0 127 132 138	55.0 127 132 138	55.0 127 132 138	55.0 127 132 138	55.0 127 132 138			
	49	52.0 13.5	121 127 134	53.0 123 129 135	53.0 123 129 135	53.0 124 129 135	53.0 124 129 135	53.0 124 129 135			
	49	50.0 14.0	118 125 131	51.0 120 126 133	51.0 120 126 133	51.0 120 126 133	51.0 120 126 133	51.0 121 126 133			
	49	48.0 14.0	115 CK 122 129	49.0 117 123 130	49.0 117 123 130	49.0 117 123 130	49.0 117 123 130	49.0 117 123 130			
	49	46.0 14.5	111 CK 119 126 CK	47.0 113 CK 120 127	47.0 114 CK 120 127	47.0 114 CK 120 127	47.0 114 CK 120 127	47.0 114 CK 120 127			
	49	44.0 15.0	108 CK 115 CK 123 CK	45.0 110 CK 117 CK 124 CK	45.0 110 CK 117 CK 124 CK	45.0 110 CK 117 CK 124 CK	45.0 110 CK 117 CK 124 CK	45.0 111 CK 117 CK 124 CK			
	49	42.0 15.5	104 CK 112 CK 120 CK	43.0 106 CK 114 CK 122 CK	43.0 107 CK 114 CK 122 CK	43.0 107 CK 114 CK 122 CK	43.0 107 CK 114 CK 122 CK	43.0 107 CK 114 CK 122 CK			

LIMITATION CODES:
F = Field length
S = 2nd Segment
* = Obstacles
T = Tire speed
B = Brake energy
C = Approach climb
BLANK = No limitations

MAXIMUM LANDING WEIGHT (ton)						
RUNWAY LENGTH LIMITATIONS					CLIMB LIMIT (Go-Around)	
Runway Length : 8986 ft (2739 m)						
FLAP	40		28		OAT	W
RWY COND	DRY	WET	DRY	WET	°C	(ton)
W -10	75.0	75.0	75.0	75.0	-5	71.7
I -5	75.0	75.0	75.0	75.0	27	71.7
N 0	75.0	75.0	75.0	75.0	29	71.0
D 10	75.0	75.0	75.0	75.0	31	70.1
20	75.0	75.0	75.0	75.0	33	69.2
					35	68.3
					37	67.3
For QNH corrections, use values relevant to Go-Around						

WEIGHT CORRECTIONS (kg) for :					
CONDITIONS	TAKEOFF				GO AROUND
	DRY	WET	SSW 15	SSW	
ENG + AIRF A/I ON	-3000				-4000
QNH < 1013 (kg/hPa)	-80				-80
QNH > 1013 (kg/hPa)	+30				+30
max Δ hPa :	1				

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NOTE : MTOW/MLAW (structural) see AOM Vol.2 Chap.1		
ONE ENGINE OUT PROCEDURE :		
- PIS/L or JESSY Holding point. - Acceleration altitude: 1500 ft QNH		